## Patent claims

1. 3-Cyano-2,4,5-trifluoro-benzoyl fluoride of the formula (I)

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2. Process for the preparation of 3-cyano-2,4,5-trifluoro-benzoyl fluoride of the formula (I) according to Claim 1, characterized in that 3-cyano-2,4-dichloro-5-fluoro-benzoyl chloride is reacted nucleophilically with a fluoridizing agent according to the following equation:

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3. Use of 3-cyano-2,4,5-trifluoro-benzoyl fluoride for the preparation of 3-cyano-2,4,5-trifluoro-benzoyl chloride by reaction of 3-cyano-2,4,5-trifluoro-benzoyl fluoride with chlorinating agents, optionally in the presence of diluents.

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4. Process for the preparation of 2,4-dichloro-3-cyano-5-fluoro-benzoyl chloride of the formula (II) by elimination of water from 2,4-dichloro-5-fluoro-3-N-hydroxyiminomethyl-benzoic acid (III) with simultaneous conversion of the carboxylic acid function into the carbonyl chloride according to the following equation:

5. 2,4-Dichloro-5-fluoro-3-N-hydroxyimino-methyl-benzoic acid of the formula (ΠΙ)

6. Process for the preparation of 2,4-dichloro-5-fluoro-3-N-hydroxyiminomethyl-benzoic acid of the formula (III) according to Claim 5, by reaction of 2,4-dichloro-5-fluoro-3-formyl-benzoic acid of the formula (IV) with hydroxylamine according to the following equation:

- 7. Process for the preparation of 2,4-dichloro-3-cyano-5-fluoro-benzoic acid
  - a) by elimination of water from 2.4-dichloro-5-fluoro-3-N-hydroxyiminomethyl-benzoic acid of the formula (III) according to the following equation

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b) by reaction of 2,4-dichloro-5-fluoro-3-formyl-benzoic acid of the formula (IV) with hydroxylamine in the presence of formic acid according to the following equation

8. 2,4-Dichloro-5-fluoro-3-formyl-benzoic acid of the formula (IV)

9. Process for the preparation of 2,4-dichloro-5-fluoro-3-formyl-benzoic acid of the formula (IV) according to Claim 7,

a) by hydrolysis of 2,4-dichloro-5-fluoro-3-dichloromethyl-benzoic acid or

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by hydrolysis of 2,4-dichloro-5-fluoro-3-dichloromethyl-1-trichlorob) methylbenzene of the formula (VI),

in each case in the presence of acids and optionally in protic solvents.

10. 2,4-dichloro-5-fluoro-3-dichloromethyl-1-trichloromethylbenzene formula (VI) the

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Process for the preparation of 2,4-dichloro-5-fluoro-3-dichloromethyl-1-tri-11. chloromethylbenzene of the formula (VI),

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according to Claim 10 by side-chain chlorination of 2,4-dichloro-5-fluoro-1,3-dimethylbenzene (VII) to give 2,4-dichloro-5-fluoro-3-dichloromethyl-1trichloromethylbenzene (VI) according to the following equation:

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characterized in that the chlorination is carried out under free-radical conditions and/or at elevated temperature.

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12. 2,4-dichloro-5-fluoro-1,3-dimethylbenzene of the formula (VII)

13. Process for the preparation of 2,4-dichloro-5-fluoro-1,3-dimethylbenzene of the formula (VII) according to Claim 12 by ring chlorination of 5-fluoro-1,3-xylene (VIII) to give 2,4-dichloro-5-fluoro-1,3-dimethylbenzene (VII) using chlorine gas, optionally in a diluent and in the presence of a catalyst according to the following equation:

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